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### NOTICE OF ALLOWANCE AND FEE(S) DUE

23696

7590

04/15/2010

QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 EXAMINER
SHAND, ROBERTA A
ART UNIT PAPER NUMBER

2472 DATE MAILED: 04/15/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780.539	02/17/2004	Raijy Laroja	060569	7486

TITLE OF INVENTION: EFFICIENT AUTOMATIC REPEAT REQUEST METHODS AND APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/15/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of an appecifying a new correst	maintenance fees was pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPOND	Fee	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
QUALCOMM 5775 MOREHO SAN DIEGO, C	INCORPORATE JUSE DR.	5/2010 ED	I he Stat	Cer reby certify that thes Postal Service w	tificate is Fee(	e of Mailing or Transı s) Transmittal is being ficient postage for firs	
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/780,539	02/17/2004		Rajiv Laroia	A D. A EWI IC		060569	7486
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EXAM	IINER	ART UNIT	CLASS-SUBCLASS	]			
·	OBERTA A	2472	370-216000				
☐ "Fee Address" ind	oondence address (or Cha B/122) attached. lication (or "Fee Address D2 or more recent) attach	inge of Correspondence	(1) the names of up to or agents OR, alternatic (2) the name of a single registered attorney or 2 registered patent attorney and 2 registered patent attorney or 2 registered patent attorney or 3 registered patent attorney	2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	IHE PATENT (print or ty) data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment.			ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gro	up entity Government
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NOTE: The Issue Fee an	d Publication Fee (if req		d from anyone other than t	• •			e assignee or other party in
Authorized Signature				Date			
Typed or printed name							
an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden. should be sent to th	1.14. This collection is est depending upon the indiverse Chief Information Office	timated to take 12 1 vidual case. Any co er. U.S. Patent and	minutes mment Traden	s to complete, including s on the amount of time mark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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5775 MOREHOU		ART UNIT	PAPER NUMBER			
SAN DIEGO, CA 92121				2472		
				DATE MAILED: 04/15/2010		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1088 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1088 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/780,539 <b>Examiner</b>	LAROIA ET AL.  Art Unit	
·			
	Roberta A. Shand	2472	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm <b>IGHTS.</b> This application is	n this application. If not included unication will be mailed in due cours	se. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>the amendment filed</u>	<i>July 2, 2009</i> .		
2. X The allowed claim(s) is/are 2, 5-17 and 26-44, renumbere	<u>d 1-34</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have		or (f).	
2. ☐ Certified copies of the priority documents have	e been received in Application	on No	
3.   Copies of the certified copies of the priority do	cuments have been receive	d in this national stage application f	rom the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirer	nents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w(PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			i) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			:he
Attachment(s)	5 Notice of Ir	Sormal Dotont Application	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		nformal Patent Application Summary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No.	/Mail Date  Amendment/Comment	
Paper No./Mail Date			_
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>		Statement of Reasons for Allowand	:e
	9. Other		
	/William Trost Supervisory Pa	/ Itent Examiner, Art Unit 2472	

Application/Control Number: 10/780,539 Page 2

Art Unit: 2472

# Allowable Subject Matter

- 1. The following is an examiner's statement of reasons for allowance: the prior art does not teach or fairly suggest a communications method, the method comprising: operating a first communications device to: perform a decoding operation on a first signal including encoded signal information; determine if the encoded signal information included in the first signal was successfully, decoded; when it: is determined that said encoded information was successfully decoded, generating :an ACK signal having an ACK signal value; and when it is determined that said encoded information was not successfully decoded, generating a first NAK signal having one of a plurality of possible NAK signal values, each NAK signal value, in the plurality of NAK signal~ values, differing from any other one of the NAK signal values in said plurality by an amount which is less than the smallest amount any one of said NAK signal values corresponding to a different level of decoding success, as recited in independent claims 1, 12, 26, 30, 36, 39, 42, 43 and 44.
- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2472

Conclusion

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Roberta A. Shand whose telephone number is (571)272-3161.

The examiner can normally be reached on M-F 9:00am-5:30pm.

4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roberta A. Shand

/R. A. S./

Examiner, Art Unit 2472

/William Trost/

Supervisory Patent Examiner, Art Unit 2472